

Name: _____

Worksheet – Undistribution (GCF) – Version 2

Directions: Please fully factor the following expressions.

1. $7x - 21$

$$7(x-3)$$

2. $-14x + 7zx - 21$

$$-7(2x - zx + 3)$$

3. $xy^2 - 9x^2y$

$$xy(y-9x)$$

4. $23x + 23x^5 - 46x^4$

$$23x(1 + x^4 - 2x^3)$$

5. $18ab^3 - 44ab^2 + 24a^2b$

$$2ab(9b^2 - 22b + 12a)$$

6. $20a^4 - 15ab^5 + 44a^3b$

$$a(20a^3 - 15b^5 + 44a^2b)$$

7. $-6axy^2 - 18bxy^2 + 9cxy^2$

$$-3xy^2(2a + 6b - 3c)$$

8. $-56a^4 - 7a + 21a^{21}$

$$-7a(8a^3 + 1 - 3a^{20})$$

9. $24a^2 - 20a^3 + 84a^5$

$$4a^2(b - 5a + 21a^3)$$

10. $-x^5 - x^7 - x^4$

$$-x^4(x + x^3 + 1)$$